

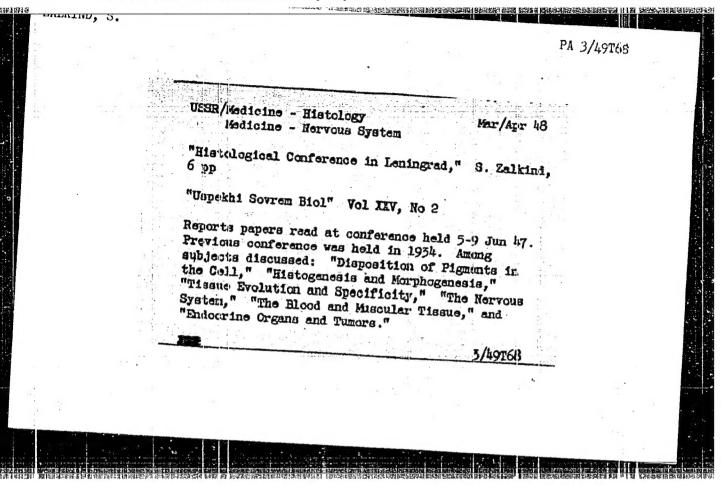
USER/Medicine - Erythropoiesis Jul/Aug 1947
Medicine - Blood, Cells

"How Theories of Erythropoiesis," S. Ya. Zalkind,
Moseque, 1 p

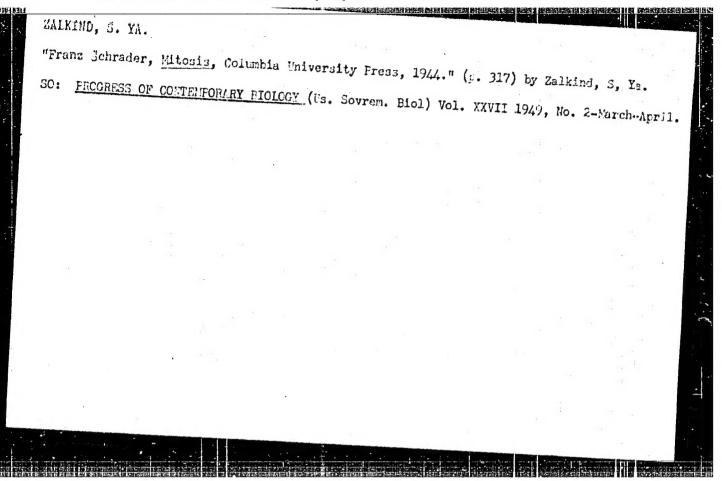
"Uspekhi Sovremennoy Biologii" Vol XXIV, No 1 [4)

This srticle appears to be a summary of certain facts
which appeared in several foreign publications.
Listed are "Secretion of Red Blood Corpuscles" by
Duran and Jorda in Nature, Vol 159, No 4035, 1947;

"Origin of Erythrocytes" by Waide in Nature, Vol 159,
No 4034, 1947; article by Chevremont, "Journal of
Morphology" Vol 76, No 3, 1945, p 139.



ZALKIND, S. YA. PA 47/49759 USSR/Medicine - Histology, USSR Medicine - Histology, Teaching Jen/Feb 49 "Conference on Problems of Development in Histology," S. Ya. Zalkind, 4 pp "Uspekhi Sovrem Biol" Vol XXVII, No 1 Dept of Medico-Biol Sci, Inst of Experimental Med, and Inst of Morph, all of Acad Med Sci USSR, held a joint session on 17-18 Dec 48 to determine current state of Soviet histology. Gives excellent list of foremost scientists working on problems in histology in presentday USSR. 47/49159



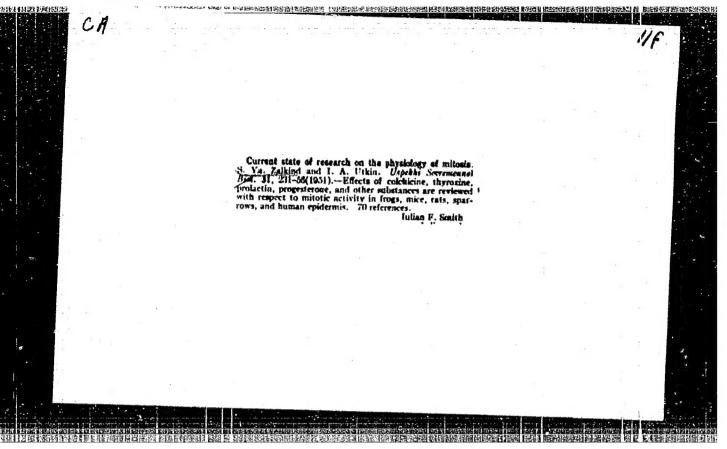
ZAL'KIND, S. Ya.

"The 5th Congress Of Anatomists, Histologists and Embryologists." (p.429) by
S. Ya. Zal'Kind

SO: Progress of Contemporary Biology (Usp. Sovrem. Biol.) Vol. XXVIII, 1949, Nc.3

"Functional Morphology of Yeast Organisms, by M. M. Maisol." (p. 151) by Zalbert S. Va.

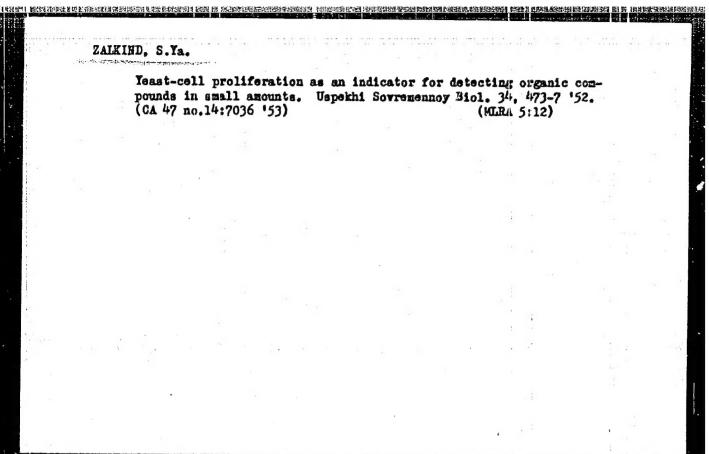
SO: Progress of Contemporary Biology, 1951, Vol. XXXI, No. 1, January-February



ZALKIED, S.Ya.

Mitosis and functional activity of the cell. Usp. sovrem. biol. 33 no. 3:431-449 May-June 1952. (CIML 22:4)

1. Moscow. 2. Includes a sectioning on the prevention of cell growth by a vital pigment as a method for inhibiting the growth of tumors.

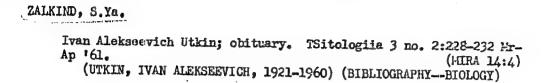


ZALKIND, S.Ya.; STEPANOVA, L.G.

Comparative cytological analysis of tissue culture cells under normal conditions and under the influence of the policyclitis virus. Report No.2: Cytological changes in cells cultivated under the influence of the policyclitis virus. Biul. eksp. biol i med. 50 no.12:76-80 D '60. (MIRA 14:1)

1. Is Moskovskogo nauchno-issledovatel'skogo instituta virusnykh preparativ Ministerstva zdravookhreneniya Soyuza SSSR. Predstavlena deystvitel'aym chlenom AMN SSSR G.V. Vygodchikovym.

(POLICHYELETIS) (TISSUE CULTURE)



ZALKIND, S.Ya.

Species specificity of cancer inhibitor. Doklady Akad. nauk SSSR
87 no. 4:685-688 1 Dec 1952. (CLML 23:5)

1. Presented by Academician A. D. Speranskiy 3 October 1952.

ZALKIND, S. Ya. (Prof)

"The Life of Cells Outside the Organism," published by the Soviet Science State Publishing House, Moscow, 1953

This book on the cultivation of cells and animal tissues outside the organism, gives information on the experimental methods, and describes the various aspects and phenomena of the study of cells living outside the organism.

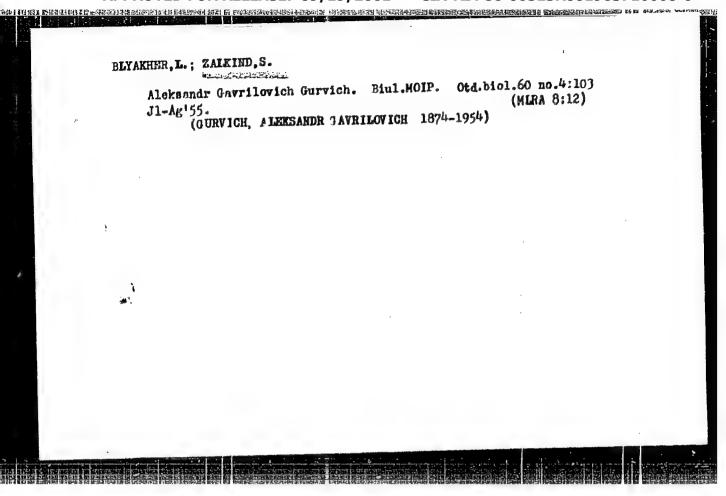
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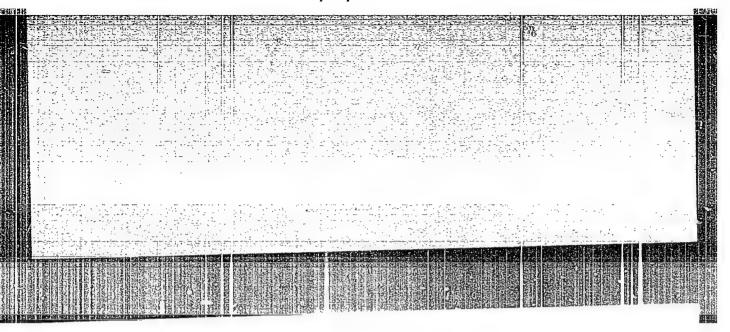
Translation Sum. No. 382, 14 Apr. 55

"Mitotic Regimen of the Organism Under Normal and Pathological Conditions," Usp. Sovrem. Biol., 38, No.1, pp 68-85, 1954

Translation M-711, 24 Aug 55

user/ Medicine - Cytology Pub. 22 - 55/6] Card 1/1 zalkind, S. Ka. Authors THE RESIDENCE OF THE PARTY OF : Irritation with electric current and its effect on the mitotic activity Title. of the corner epithelia of white mice : Dok. AN SSSR 99/6, 1091-1093, Dec 21, 1954 Periodical ' Experiments were conducted on white mice to determine to what extent the mitotic activity of cornea epithelia would be affected by excitation of Abstract . the central nervous system by strong, painful irritation. DC-current of 15 - 20 v was used as the medium of irritation. Results showed that painful irritation has a distinct effect on the mitotic activity of the cornea epithelia, delaying the work of the cells in their fission processes and causing displacements with respect to phases which is apparently connected with the tempo of the already functioning mitosis. Four USSR references (1951-1954). Tables. Institution: Presented by: Academician A.I. Abrikosov, October 23, 1954





ZAIKIND, S.Ya.

In memory of M.A.Vorontsova. Biul.MOIP. Otd.biol.62 no.1:97-100
(MIRA 10:6)

Je-F '57.
(VCRONTSOVA. MARIIA ALEKSANDROVNA. 1902-1956)
(HEGENERATION (BIOLOGY))

AUTHOR:

Zalkind, S. Ya.

20-119-2-49/60

TITLE:

The Mitotic Activity of the Spleen in the Process of Immunoand the second of the second o genesis (Mitoticheskaya aktivnost' selezenki v protsesse

immunogeneza)

PERIODICAL:

Doklady Akademii Nauk SSSR, 1958, Vol 119, Nr 2,

pp 365 - 368 (USSR)

ABSTRACT:

Recently data have accumulated which give reason to believe that the mitotic activity of an organism is closely dependent on its physiological condition. The factors of environment as well as the processes occuring in the organism have an essential influence on this activity in many organs (References 1-4). Therefore, it is very likely that also deviations from the physiological standard, and especially pathological conditions, must modify the mitotic activity. Existing data confirm this assumption from papers (Reference 5,6) on the reduction of the mitotic activity in tissues of infected with tumor. The material dealing with the influence of other pathological conditions is extremely scarce (References 7-9). The problem, however, is of importance and all-round

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interest. Modification of mitotic activity obviously is of no small importance for an analysis of the pathological process itself and for the alterations of the biological fundamental processes caused by it. Especially, the investigation of the mitotic activity during the immunogenesis is very interesting. The development of suchscomplicated phenoimmunity must be accompanied by alteramenon as proliferamitotic activity, simply because tions of tive hyperplasia is one of the most constant protective reactions in the acquirement of immunity (Reference 11, 12). mentioned in activity For these reasons, the the title was investigated. The immunocenesis here was caused by an injection of anti-pest vaccine EV-76 and AMP-32-70 in guinea -pigs. 12 - 17 days later, a considerable increase of R E S-elements in the place of injection, and in several inner organs, was ascertained. The author wanted to compare these data with the intensity of mitosis in such an important the spleen. The test animals were killed R E S-organ as

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The Mitotic Activity of the Spleen in the Process of Immunogenesis

by chloroforming on the 4th,7th,10th,14th,17th,21st,30th and 40 th days. Guinea-pigs who had been injected with BTsZh-vaccine, a deadened typhus-vaccine, or 1 ml of physiclogical common salt solution 10 - 17 days before their death, served as controls. The results are shown in table 1 as well as in figure, 1 and 2. Both anti-pest vaccines cause a rapid increase in mitotic activity after 10-17 days, that is, in the culmination of the reactive hypertrophy. This stimulation obviously is connected with the existence of living microbe particles in the vaccine. At least the influence of the vaccine EV, deadened by heating, caused 33 mitoses per 100 fields of vision on the average, which considerably exceeds the number of mitoses occuring after injection of physiclogical common salt solution; but only corresponds to half the number of mitoses in the spleen occurring after the introduction of living vaccines. This harmonizes with the fact that the immunity according to all parameters is more perfect after introduction of living vaccines than after influence of

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20- 119-2-49/60

The Mitotic Activity of the Spleen in the Process of Immunogenesis

deadened vaccines. The anti-pest vaccines obviously have a mitotic activity.BTsZHspecific influence stimulating -vaccine and deadened typhus-vaccine had the same effect as the physiological salt solution. Thus proteins do not stimulate the activity. The development of a state of active stress immunity as a direct cause of the increasing mitotic activity in the spleen can be regarded as the most probable one. Especially, it can be assumed that as a consequence of the mitoses which guarantee cell generations are the protection reaction of the organism by introducing the factor. The above results have to be regarded as provisional and do not make it possible to solve several problems arising in connection with this There are 2 figures, 1 table and 12 references, all of which are Soviet.

PRESENTED:

December 9, 1957, by K. I. Skryabin, Member, Academy of

Sciences, USSR

Card 4/5

GULEVICH, N.Ye.; ZAIKIND, S.Ya.

Preservation of Hela cells in suspensions at room temperature and in refrigeration at 4°C. Vop.virus. 4 no.6:728-734 N-D '59.

(MIRA 13:3)

1. Moskovskiy institut preparatov protiv poliomiyelita.

(TISSUE CULTURE)

ZALKIND, S.Ya.

Effect of medication sleep on mitotic activity of the corneal epithelium in white mice. Biul.eksp.biol. i med. 48 no.7: 99-101 J1 59. (MIRA 12:10)

1. Iz Hoskovskogo nauchno-issledovatel skogo instituta preparatov protiv poliomiyelita. Predstavlena deystvitel nym chlenom AMN SSSR V.N.Chernigovskim.

(SLEEP) (CELL DIVISION) (CORNEA - physiology)

ZALKIHD, S.Ya.; STEPANOVA, L.G.

Comparative cytological analysis of cells in tissue culture under normal conditions and following exposure to the poliomyelitis virus. Report No.1: Dynamics of cytological changes in four strains of cultivated cells in normal conditions. Biul.eksp.biol. i med. 47 no.6:110-115 Je '59. (MIRA 12:8)

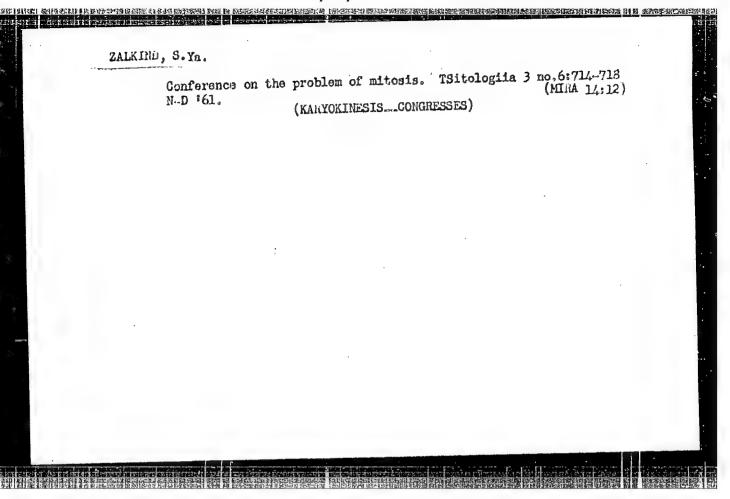
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1. Iz Moskovskogo nauchno-issledovatel skogo instituta preparatov protiv poliomiyelita. Predstavlena deystvitel nym chlenom AMN SSSR V.N.Chernigovskim.

(TISSUE CULTURE,

cytol. of normal cells & cells exposed to polio. virus (Rus))
(POLIOMYELITIS VIRUS,

cytol. of cells in normal tissue culture & cells exposed to polic. virus (Rus))



ZALKIND, S.Ya. (Moskva, V-17, Pyzhevskiy per:, 5, kv.3)

Tenth Congress of Cell Biology. Arkh. anat. gist. 1 embr. 40 no.63 (Mina 15:2)

116-118 Je '61. (CYTOLOGY_CONGRESSES)

ZALKIND, S.Ya.; KULIKOVA, K.S.; BORISOGLEBSKAYA, N.V.; DUBROVSKAYA, R.V.

Comparative cytological analysis of the effect of the smallpox vaccine virus on tissue culture cells. Vop.virus 7 no.5:586-594 S-0 '62. (MIRA 15:11)

1. Moskovskiy nauchno-issledovatel skiy institut virusnykh preparatov.

(TISSUE CULTURE) (VACCINE LYMPH)

ANDZHAPARIDZE, O.G.; BOGOMOLOVA, N.N.; ZALKIND, S.Ya.

Chronic cell infection by the virus of tick-borne encephalitiq.

Report No. 1: Cell properties of chronically infected cultures.

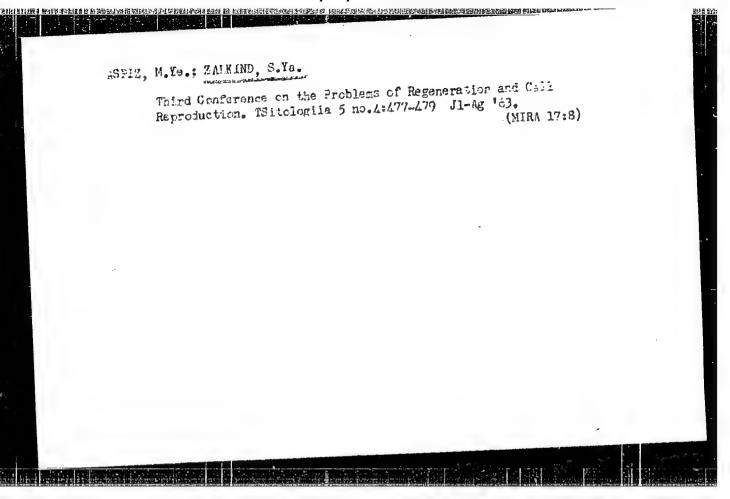
Vop. virus. 7 no. 6:650-654 N-D '62. (MIRA 16:4)

1. Moskovskiy nauchno-issledovatel'skiy institut virusnykh preparatov. (CELIS) (ENCEPHALITIS)

ZALKIND, S.Ya;; STEPANOVA, L.G.; TERSKIKH, V.V.

Stability of transplantable cell lines. Biul. eksp. biol. i med. 53 (MIRA 15:4) no. 4:96-59 Ap '62.

1. Iz Moskovskogo nauchno-issledovatel'skogo instituta virusnykh preparatov. Predstavlena deystvitel'nym chlenom ANN SSSR V.V.
Parinym. (TISSUE CULTURE) (CYTOLOGY) (VIROLAGY)



ALEKSANDROV, V.Ya., prof.; ERODSKIY, V.Ya.; ERONSHTEYN, A.A.;

ERUMEERG, Ye.M.; VAKHTIN, Yu.B.; VINNIKOV, Ya.A.;

GAYTSKHOKI, V.S.; GOROSHCHENKO, Yu.L.; GULYAYEV, V.A.;

ZHINKIN, L.N.; ZAVARZIN, A.A.; ZALKIND, S.Ya.; ZBARSKIY,

ZHINKIN, L.N.; ZAVARZIN, A.A.; ZALKIND, S.Ya.; ZBARSKIY,

I.B.; KATSNEL'SON, Z.S.; KOMISSARCHIK, Ya.Yu.; LEVIN, S.V.;

MARAKHOVA, I.I.; MASHANSKIY, V.F.; MOSEVICH, T.N.; NIKOL'SKIY,

N.N.; PESHKOV, M.A.; FOLENOV, A.A.; POLYANSKIY, Yu.I.;

ROZENTAL', D.L.; RUMYANTSEV, P.P.; TITOVA, L.K.; FEDIN, L.A.;

ROZENTAL', VE.M.; CHERNOGRYADSKAYA, N.A.; TROSHIN; A.S., otv.

KHEYSIN, Ye.M.; CHERNOGRYADSKAYA, N.A.; TROSHIN; A.S., otv.

ROZENTAL', M.N., red.; MIKHAYLOV, V.P., rod.; NEYFAKH,

S.A., red.; PARIBOK, V.P., red.; POLYANSKIY, Yu.I.; red.;

RAYKOV, I.B., red.

[Manual on cytology in two volumes] Rukovodstvo po tsitologii v dvukh tomakh. Moskva, Nauka. Vol.1. 1965. 571 p. (NIRA 18:2)

1. Akademiya nauk SSSR, Institut tsitologii.

ZALKIND, S.Ya.; BORISOGLEBSKAYA, N.V.; BOGOMOLOVA, N.N.; VAL'DMAN, K.L.

Flucrescence microscopic analysis of HEp-2 cells with chronic tick-borne encephalitis virus infection. Vop. virus. 10 no.5:563-567 S-0 165.

(MIRA 18:11)

1. Moskovskiy nauchno-issledovatel skiy institut virusnykh preparatov.

ZALKIND, S.Ya.; DOSSER, Ye.M.; DOROFEYEV, V.M.

Comparative morphological study of the renal tissue culture in some vertebrates. Arkh.anat., gist, i embr. 49 no.10:12-17 (MIRA 18:12)

1. Laboratoriya virusnoy tsitopatologii (zav. - prof. S.Ya. Zalkind) Moskovskogo nauchno-issledovatel skogo instituta virusnykh preparatov. Submitted June 30, 1964.

EWT(1)/T L 27194-66 SOURCE CODE: UR/0402/65/000/005/0563/0567 ACC NR: AP600L865 Ya.; Borisoglebskays, N. V.; Bogomolova, AUTHOR: Zalkind, 3. Val'dman. K. L. ORG: Moscow Scientific Research Institute of Viral Preparations (Moskovskiy nauchno-isslevodatel'skiy institut virusnykh preparatov) TITLE: Analysis by luminescent microscopy of Hep-2 cells with chronic tick-borne encephalitis virus infection SOURCE: Voprosy virusologii, no. 5, 1965, 563-567 TOPIC TAGS: virus disease, luminescence, microscopy, RNA, histology, below to report s, with the select, encephalitis, cyfologu ABSTRACT: The dynamics of RNA production was studied from the first to the 12th day in a line of the above cells and another new one which developed as a result of a thermal effect (50 C) from one surviving colony. The cells were grown on mica platelets in test tubes and studied histochemically by luminescence microscopy after acridine orange steining. To determine the specificity of the stain, controls were set up with live cells. A 0.1% solution of crystalline ribonuclease was prepared for treating the cells prior to and after the staining. 576.858.25.095.383.086 UDC: Card 1/2

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ZALKIND, S.Ya. (Moskva, C.108, ul. Gerasima Kurina, 18, kv.47)

Cell multiplication and viral infection in tissue culture. Arkh.
anat., giat. i embr. 46 no.44:75-103 Ap '64.

[MIRA 18:5]

1. Inboratoriya virusnoy tsitoratologii (zav. - prcf. S.Ya.
Zalkind) Moskovskogo nauchno-issledovatel'skogo instituta
virusnykh preparatov.

ZALKIND, S.Ya.; ZASLAVSKIY, V.G.

Adaptation of cells to conditions of cultivation in vitro. TSit logiia 5 no.5:519-529 S-0 62. (MIRA 18:5)

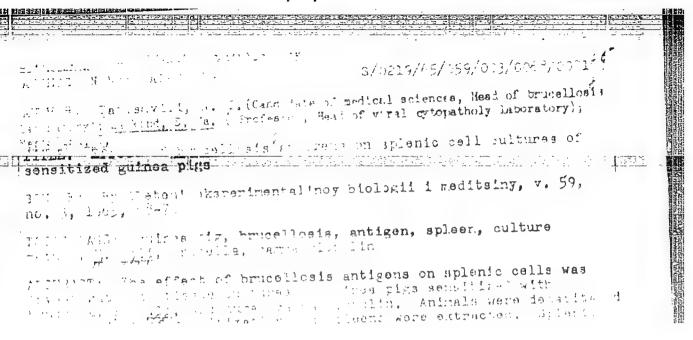
1. Laboratoriya virusnoy tsitopatologii Moskovskogo nauchnoissledovatel*skogo instituta virusnykh preparatov, Moskva.

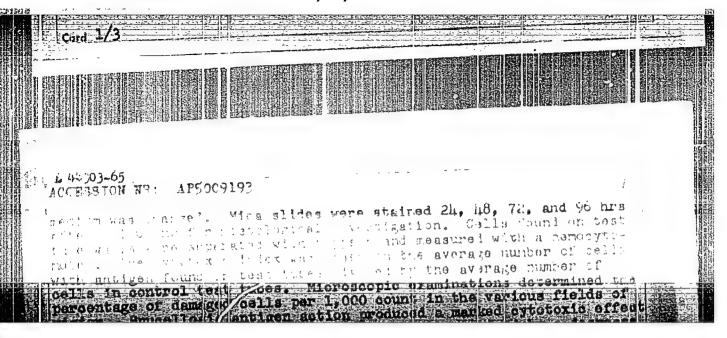
ZALKIND, S.Ya.

Current state of the problem of the cytopathic effect of viruses.

Vest. AMN SSSR 19 no.12:11-19 64. (MIRA 18:4)

1. Nauchno-issledovatel skiy institut virusnykh preparatov, Moskva.





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ZALKIND, S. Ya.; POBERIY, I. A.; BORISOGLEBSKAYA, N. V.; IZAKOVA, L. P.; TIKHOMIROVA, T.I. BOGOMOLOVA, N. N.

"Tsitokhimicheskoye i avtoradiograficheskoye izucheniye infitsirovannoy virusami kletki."

report presented at Symp on Virus Diseases, Moscow, 6-9 Oct 64.

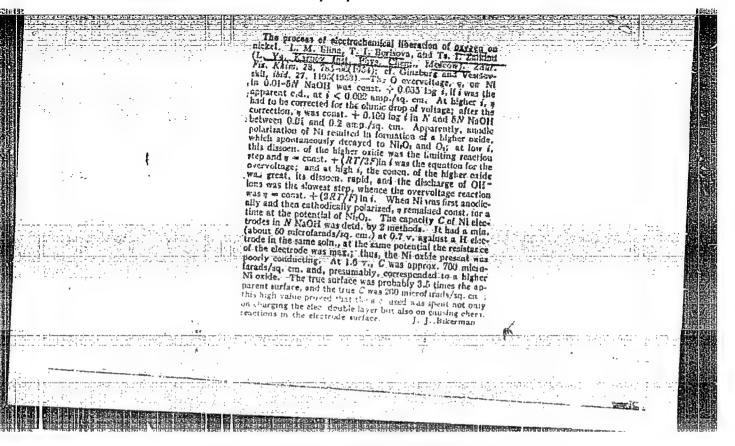
Moskovskiy nauchno-issledovatel'skiy institut virusnykh preparatov.

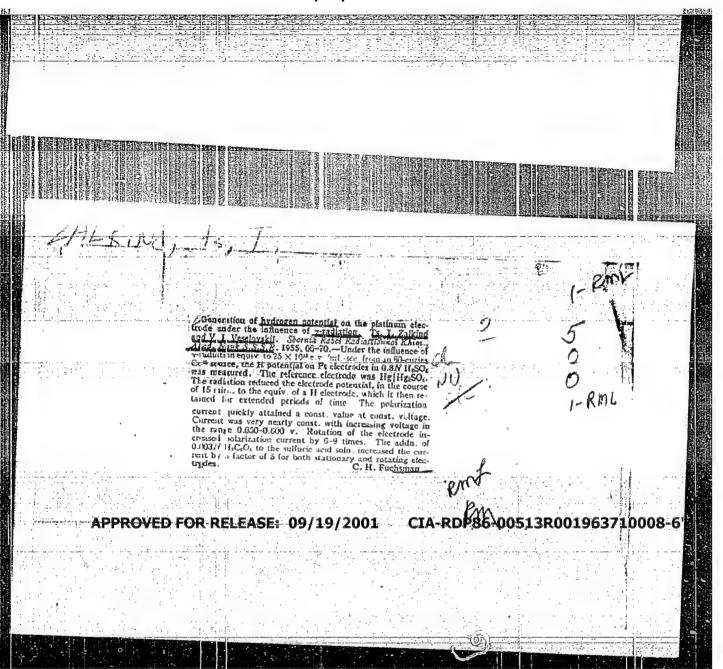
ZALKIND, S.Ya.; RAPOPORT, R.I.; DOROFEYEV, V.M.

Cytochemical study of testicular tissue culture of the monkey. TSitologiia 6 no.1:81-85 Ja-F '64. (MIRA 17:9)

1. Laboratoriya virusnoy tsitologii Nauchno-issledovatel'skogo instituta virusnykh preparatov, Moskva.

ZALKIND, TS. I.	with prior ac expts. The 1st, slow stage in formstion of surface Pt oxides is discharge of 0. Due to changes during the 1st stage of existence of the to changes during the 1st stage of existence of the oxide, it exhibits properties resembling those of a phase oxide. Inhibition of discharge of oxygen by the oxide is reduced as the oxide ages. Electrochem the oxide is reduced as the oxide ages. Electrochem adsorption of oxygen on platinum is facilitated by adsorption of adsorbed hydrogen. 190710	platinum Electrodes Adsorption of Oxygen on Platinum at Polarizations Adsorption of Oxygen on Platinum at Polarizations Adsorption of Oxygen on Platinum at Polarizations Exalkind, B. v. Ershler, Phys Chem Inst imeni L. Ya. Zalkind, B. v. E	





ZALKIND, Ta. I.

in collection of articles-

Effect of Ionizing Radiation (6000) on Inorganic 500 and Organic Systems, Moscow, Izd-vo AN SSSR, 1958, 416pp. (most works a continuation of Sp rabot po radiat. Maim, 1955) 22 references of which 3 are Soviet, 16 English, and 3 German.

66

Zalkind, Ts.I., Veselovskiy, V.I. Mechanism of Radiochemical Formation of Stationary Potential Mifferences in Aqueous Solutions

The stationary potential difference of ~ 0.9 is formed in the system Pt/H₂SO_h saturated with nitrogen/Au and irradiated with Co⁶⁰

y-radiation. It was shown that the formation of a positive potential at the Au electrode is connected with the radiolytic formation of the OH radical. The oxidation of the electrode during heating facilitates the formation of the positive potential at the Au electrode. The rate of reduction is determined by the rate of the electrode reaction, i.e., the electrochemical discharge stage. There are 6 figures, and 6 references of which 5 are Soviet and 1 English.

Zalkind, Ts.I., Veselovskiy, V.I. Photoelectrochemical and Radiation Electrochemical Processes in Aqueous Solutions of Uranium Salts
Uranium salts were irradiated with radon and Co⁶⁰. It was shown that the hexavelent uranium salts show reduction of uranyl ions to pentavalent uranium ions. Due to the ease of oxidation - reduction transitions in the system U(VI / U(V), the increase of the uranyl ion concentration is followed by a decrease in the amount

-Card-8/-3-1

Effect of Ionizing Radiation (Cont.)

790

of the formed $\rm H_{2}^{0}$, uranium peroxide compounds, and in the oxidation of U(IV) and oxalic acid. Irradiation of the system U(IV) / U(VI) and U(III) / U(IV) results in a shift of equilibrium and the formation of more oxidized forms. There are 14 figures, 7 tables, and 18 references of which 8 are Soviet, 7 English, and 3 German.

Miller, I.B., Veselovskiy, V.I. Radiation Electrochemical Processes in Aqueous Solutions of Uranyl Salts

This is a study of the electrochemical nature of the redox components in the radiolysis of uranyl salt solutions. Certain conditions were established for the formation of the "hydrogen" and "oxygen" potentials in this system. A stationary potential of the Pt electrode develops during γ -irradiation due to the emergence of nonequilibrium concentrations of U(V). The stationary potential at the Au electrode in uranyl sulfate solutions is $\sim 1.1v$, while at the Pt electrode it shifts towards negative values. There are 9 figures and 12 references, of which 6 are Soviet and 6 English.

Card 9/31

3/2

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963710008-6"

PSHEZHETSKIY, Samuil Yakovlevich; ZALKIND, TS.I., red.; ZAZUL'SKAYA,
V.F., tekim. red.

[Mechanism of radiation-chemical reactions] Mekhanizm radiatsionmokhimicheskikh reaktsii. Moskva, Goskhimizdat, 1962. 360 p.

(MIRA 15:12)

(Radiochemistry)

SOBKOVSKI, Ye.; ZALKIND, TS.I.

Oxidation of tetravelent uranium ions in perchloric acid solution under the effect of cobalt-60 gamma-radiation. Zhur. fiz. khim. 39 ho.6:1388-1392 Je '65. (MIRA 18:11)

1. Fiziko-khimicheskiy institut imeni Karpova. Guimitted Jan. 27, 1964.

SHEPELIN, V.A.; ZALKIND, TS.I.; VESELOVSKIY, V.I.

Steady-state reduction of oxygen on a platinum cathode in alkalice solution. Znur.fiz.khim. 38 no.8:2098-2101 Ag '64.

(MIRA 18:1)

1. Fiziko-khimicheskiy institut imeni P.Ya.Karpova.

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L. L. L. Grant a Control point in anomy one in perchloric acid solution under the influence of Gamma radiation from cobalt-50

50 PR For Zournel for cheskey khinting vision no. 6. 1965, 1388-1592

ABSTRACT: An electrochemical study of the oxidation of uranium (IV) perchlorate in aqueous perchlorae acid irradiated with a rays was carried out. Changes in the control perchlorae acid irradiated with a rays was carried out. Changes in the control perchlorae acid irradiated with a rays was carried out. Changes in the control perchlorae acid irradiated with a rays was carried out. Changes in the control perchlorae acid irradiated with a rays was carried out. Changes in the control perchlorae acid irradiated with a rays was carried out. Changes in the control perchlorae acid irradiated with a rays was carried out. Changes in the control perchlorae acid irradiated with a rays was carried out. Changes in the control perchlorae acid irradiated with a rays was carried out. Changes in the control perchlorae acid irradiated with a rays was carried out. Changes in the control perchlorae acid irradiated with a rays was carried out. Changes in the control perchlorae acid irradiated with a rays was carried out. Changes in the control perchlorae acid irradiated with a rays was carried out. Changes in the control perchlorae acid irradiated with a rays was carried out. Changes in the control perchlorae acid irradiated with a rays was carried out.

NO REF SOV: 012

OTHER: 004

GOCHALIYEV, G.Z.; ZALKIND, TS.I.; VESELOVSKIY, V.I.

Stationary electrochemical process in the irradiated system Pt (sulfuric acid solution) Au. Dokl. AN SSSR 146 no.1:131-134.S
[162. (MIRA 15:9)

l. Fiziko-khimicheskiy institut im. L.Ya. Karpova. Fredstavleno akademikom A.I. Frumkinym. (Electrochemistry) (Radiation) (Systems (Chemistry))

5/844/62/000/000/030/129 D244/D307

Gochaliyev, G. Z., Zalkind, Ts. I. and Veselovskiy, V. I.

The radiation electrochemical processes in oxygen-bearing AUTHORS:

aqueous solutions of sulphuric acid TITLE:

Trudy II Vsesoyuznogo soveshchaniya po radiatsionnoy khi-SOURCE:

mii. Ed. by L. S. Polak. Moscow, Izd-vo AN SSSR, 1962,

TEXT: The authors investigated radiation-chemical processes in Oz-containing solutions to obtain additional data on the intermediate reaction products. The experiments were conducted at 10°C ± 100 with a rotating Pt electrode and a dropping Hg electrode immersed in 0.005 N H₂50₄ + 0.5 N Ha₂So₄ containing o₂. The irradiation dosage was 4 x 10 16 ev/ml.sec. On irradiation there appear tion dosage was 4 x 10 ° ev/mi.sec. on irradiation there appear two waves in the polarization curve for the Pt electrode, occurring at 0.76 and 1.6 v, corresponding to the oxidation of H₂O₂ formed

Card 1/3

5/844/62/000/000/030/129 D244/D307 during irradiation, and the value of the limiting current at the during irradiation, and the value of the limiting current at the bereducing potentials of 02 is increased. Fifty minutes after the beginning of irradiation, stationary currents are established, corginning of irradiation, stationary currents are end of irradiation. The radiation ... ginning of irradiation, stationary currents are established, corresponding to the oxidation of $\rm H_2^{0}2^{\circ}$. After the end of irradiation, current decreases in both cases, which is ascribed to the disappearance of intermediate reaction creducts canable of being ovi current decreases in both cases, which is ascribed to the disappoint pearance of intermediate reaction products capable of being oxipearance of intermediate reaction products capable of being oxidized at the same potentials as H2O2 and reduced at the reduction potential of O2 at the Pt electrode. For the dropping Hg electrode there are also two polarization waves, the first of which corresponds to the reduction of 02 to H202 through the intermediate stage of HO2 formation, and the second corresponding to the reduction of H202 to H20. An increase in the current during irradiation takes place both at the reduction potentials of 0_2 and at that of $H_2 O_2$. For the Pt electrode, the current decreases at the reduction potentials of 0_2 after the irradiation is cut off. The stationary con-Card 2/3

The radiation ...

S/844/62/000/000/030/129 D244/D307

centration of $\rm H_2O_2$ obtained during the irradiation was calculated. With decreasing concentration of $\rm H_2O_2$ (1.64 to 1.18 n x 10^{-3}) the concentration of the intermediate products falls from 3.4 x 10^{-4} to 1.6 x 10^{-4} M. There are 5 figures and 1 table.

ASSOCIATION: Fiziko-khimicheskiy institut im. L. Ya. Karpova (Physico-Chemical Institute im. L. Ya. Karpov)

Card 3/3

3/844/62/000/000/0128/129 D444/D307

Gochaliyev, G. Z. and Zalkind, Ts. I. AUTHORS:

An electrochemical method for determining the dose rate TITLE

of of radiation

Trudy II Vsesoyuznogo soveshchaniya po radiatsionnoy khi-SOURCE:

mii. Ed. by L. S. Polak. Moscow, Izd.vo AN SSSR, 1962,

741-746

TEXT: If an electrode possessing a surface very large relative to the volume of solution, is immersed in a solution of oxalic acid, practically all the hydrogen formed by radiolysis is oxidized on the electrode, and the current is proportional to the rate of hythe electrode, and the current is proportional to the rate of hydrogen formation, which is shown to be linearly dependent on the dose rate. The electrode used was in the form of a platinum grid on glass. Tests in the range of 5 - 750 r/sec confirmed the linear relation, reproducibility being + 1%. The system can also be used to measure the yield of hydrogen if the dose rate and the volume of solution are known. The electrochemical descriptor instrument of solution are known. The electrochemical dose-meter instrument

Card 1/2

S/844/62/000/000/128/129
D444/D307

consists essentially of an electrochemical-cell transmitter and a measuring circuit. The former includes the electrode, a reference measuring circuit contains potentiometric and polarization. The measuring circuit contains potentiometric and polarization components. There are 6 figures.

ASSOCIATION: Fiziko khimicheskiy institut im. L. Ya. Karpova (Physico-Chemical Institute im. L. Ya. Karpov)

\$/081/62/000/010/015/085 B138/B101

21.4300

AUTHORS:

Zalkind, Ts. I., Miller, N. B., Gochaliyev, G. Z.,

Veselovskiy, V. I.

Radiation electrochemical processes in aqueous electrolyte TITLE:

solutions

Referativnyy zhurnal. Khimiya, no. 10, 1962, 62, abstract 10B416 (Tr. Tashkentsk. konferentsii po mirn. ispol'zovaniyu PERIODICAL: atomn. energii, 1959, v. 1. Tashkent, AN UzSSR, 1961, 347-354)

TEXT: By means of electromessical measurements on Pt-, Au- and Hg-electrodes, a study has been made of the radiation electrochemical processes that occur in solutions of $\rm H_2SO_4$, and of $\rm H_2SO_4$ with additions of $\rm U(4+)$, $\rm U(6+)$, $\rm (COOH)_2$, during $\rm Co^{60}$ $\rm \gamma$ radiation. From the results it is concluded that both molecular hydrogen and H atoms are ionized. (Their stationary concentration at a dose rate of $6.1\cdot10^{16}~\rm ev/cm^3$ sec was assessed as 2.3.10-5 N; this diminished with pH). On the Hg-electrode in the presence or O2 the HO2 radical is reduced. It was found that if the solutions of Card 1/2

S/081/62/000/010/015/085 B138/B101

Radiation electrochemical processes in ... B138/B101 uranium salts were subjected to radiolysis, the rate of U(5+) accumulation in the mixture of U(4+) and U(6+) was twice as high as in the U(4+) solution. In the H_2SO_4 solution with $(COOH)_2$ additions, the curve for the accumulation of H_2 in dependence on the $(COOH)_2$ concentration shows a maximum at $\sim 1 \cdot 10^{-2}$ N. H_2O_2 formation begins in this same range. [Abstracter's note: Complete translation.]

Gard 2/2

GOCHALIYEV, G.Z.; ZALKIND, TS.I.; VFSELOVSKIY, V.I.

Potential of a platinum electrode in an irradiated solution of sulfuric acid. Dokl.AN SSSR 132 no.4:872-875 Je '60. (MIRA 13:5)

1. Fisiko-khimicheskiy institut im. L.Ya,Karpova. Predstavleno akademikom A.N. Frunkinym. (Electrodes, Platinum) (Electromotive force) (Radiation)

51/201

S/020/60/132/04/38/064 B004/B007

5-4600

Gochaliyev, G. Z., Zalkind, Ts. I., Veselovskiy, V. I. AUTHORS:

The Potential of the Platinum Electrode in an Irradiated

TITLE: Sulfuric Acid Solution

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 132, No. 4,

pp. 872-875

TEXT: In earlier papers (Refs. 1-4) the suthors found that the potential of a Pt electrode in irradiated 0.8 H H2SO4 (irradiation dose 2.1015 ev/cm3.sec) assumes a value close to that of the potential of the H electrode. The present paper deals with the results obtained by a more intensive irradiation (6.1.10 ev/cm sec). The experiments were carried. out with a Co60 radiation source, and the method is described in Refs. 2 and 3. Fig. 1 shows the dependence of the potential of the Pt electrode in oxygen-free 0.8 N H2SO4 on the duration of irradiation. Also with this intensity, selectivity of the Pt electrode with respect to the reducing radiolytic products was observed. The potential assumes a value of between

Card 1/3

The Potential of the Platinum Electrode in an Irradiated Sulfurio Acid Solution

S/020/60/132/04/38/064 B004/B007

10 and 20 mv, which remains constant up to a dose of 2,1020 ev/cm3 and then rises up to 0.85 v (Fig. 1). For the oxidation of the reducing radiolytic products and the reduction of the oxidizing radiolytic products, occurring in the irradiated solution, the authors derive equations for the currents I_R and I_{0x} . As the reaction constant k_R^{\dagger} is considerably greater than kox because of the selectivity of the Pt electrode, the potential observed results. By the escape of H into the gaseous phase the stoichometric ratio between the reducing and the oxidizing products is, however, disturbed, which leads to a positive shifting of the potential in the case of high doses. Fig. 2 shows the dependence of the depolarization current at 0.4 v on the duration of irradiation. The course of this curve is explained as follows: Due to the selectivity of the Pt electrode, the oxidation of H at first predominates. As a result of the escape of H into the gaseous phase, the reduction of H_2O_2 is accelerated, the total current $(I_H - I_{H_2O_2})$ decreases and attains negative values in the case of doses higher than 2.10 20 ev/cm3, If the experiment is carried out in a vessel that is hermetically scaled and completely filled with the solution so that no gaseous phase is able Card 2/3

The Potential of the Platinum Electrode in an Irradiated Sulfuric Acid Solution

\$/020/60/132/04/38/064 B004/B007

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to form and no hydrogen can escape, a potential of +20 mv quickly forms, which remains constant throughout the experiment (20 h) (Fig. 3). Because of the increasing concentration of the oxidizing products, the polarization current quickly decreases (Fig. 4). The ionization of the H on the Pt electrode, which is formed by radiolysis, may therefore be carried out in the case of a steady potential only if the reduction of the oxidizing products takes place at the same rate (e.g., on a second electrode which is selective for these products). At the same time, a current will flow through the outer circuit. There are 4 figures and 7 references: 6 Soviet and 1 English.

ASSOCIATION: Fiziko-khimicheskiy institut im. L. Ya. Karpova (Physicochemical Institute imeni L. Ya. Karpov)

February 26, 1960, by A. N. Frumkin, Academician PRESENTED:

February 25, 1960 SUBMITTED:

Card 3/3

2612-66 ENT(1)/ENT/EFF(n)-2/ENG(m)/EPA(w)-2 IJP(c) AT UNT/0057/65/005/008/1594/1597 UNT/0057/65/008/1594/1597 UNT/0057/65/005/008/1594/1597 UNT/0057/65/005/008/1594/1597 UNT/0057/65/005/008/1594/1597 UNT/0057/65/005/008/1594/1597 UNT/0057/65/008/1594/1597 UNT/0057/65/008/1594/1597 UNT/0057/65/008/1594/1597 UNT/0057/65/008/1594/1597 UNT/0057/65/008/1594/1597 UNT/0057/65/008/1594/1597 UNT/0057/65/008/1594/1597 UNT/0057/65/008/1594/1597 UNT/0057/65/008/164/164/164/164/164/164/164/164/164/164		
NATIONAL THE STATE OF THE POLARIZATION OF A PLASMA MOVING IN A helical magnetic field NATIONAL THE STATE OF THE AUTHORS HAVE INVESTIGATED TO PLAST THE AUTHORS HAVE INVESTIGATED ASSTRACT: The authors have investigated the effect of an additional triple helical magnetic field on the polarization of plasmas moving in a toroidal magnetic field. The longitudinal magnetic field (up to 200 kA/m) was produced in a 4 mm radius U-shaped copper drift tube by suitable windings powered with dc generators. The large radius of the toroidal section of the drift tube was 42 cm and the straight legs were 80 cm long. The helical field was produced by a 134 cm raciprocal pitch 5.4 cm radius triple helical winding carrying currents up to 3 kA. Plasmas with ion densities exceeding 1013 cm ⁻³ were inject at one end by a conical	3612-66 EWT(1)/ETC/EPF(n)-2/EWG(m)/EPA(w)-2 IJP(c) AT UR/0057/65/035/009/1594/1597 UR/0057/65/035/009/1594/1597 44.55 44	
ABSTRACT: The authors have investigated the effect of an additional triple heli- cal magnetic field on the polarization of plasmas moving in a toroidal magnetic field. The longitudinal magnetic field (up to 200 kA/m) was produced in a 4 mm field. The longitudinal magnetic field (up to 200 kA/m) was produced in a 4 mm field. The longitudinal magnetic field fup to 200 kA/m) was produced in a 4 mm field. The longitudinal magnetic field fup to 200 kA/m was produced in a 4 mm field. The longitudinal magnetic field field windings powered with dc generators. The large radius of the toroidal section of the drift tube was 42 cm and the straight legs were 80 cm long. The helical field was produced by a 134 cm reci- straight legs were 80 cm long. The helical field was produced by a 134 cm reci- straight legs were 80 cm long. The helical field was produced by a conical plasmas with ion densities exceeding 1013 cm ⁻³ were inject at one emi by a conical	ITLE: . Investigation of the polarization of a plasma moving in a helical mag- etic field 21.44.55	
ABSTRACT: The authors have investigated the effect of an additional triple helt- cal magnetic field on the polarization of plasmas moving in a toroidal magnetic field. The longitudinal magnetic field (up to 200 kA/m) was produced in a 4 mm radius U-shaped copper drift tube by suitable windings powered with dc generators. The large radius of the toroidal section of the drift tube was 42 cm and the traight legs were 80 cm long. The helical field was produced by a 134 cm reci- straight legs were 80 cm long. The helical field was produced by a 134 cm reci- procal pitch 5.4 cm radius triple helical winding carrying currents up to 3 kA. procal pitch 5.4 cm radius triple helical winding carrying currents up to 3 kA.	one race inhomogeneous plasma, electric field, toroidal geometry, longitudinal	_
	BESTRACT: The authors have investigated the effect of an additional triple half- cal magnetic field on the polarization of plasmas moving in a coroidal magnetic field. The longitudinal magnetic field (up to 200 kA/m) was produced in a 4 cm radius U-shaped copper drift tube by suitable windings powered with dc generators. The large radius of the toroidal section of the drift tube was 42 cm and the straight legs were 80 cm long. The helical field was produced by a 134 cm raci- straight legs were 80 cm long. The helical field was produced by a 134 cm raci- procal pitch 5.4 cm radius triple helical winding carrying currents up to 3 kA. procal pitch 5.4 cm radius triple helical winding carrying currents up to 3 kA.	

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azimuth in order accurately to determine the direction of the polarization. In the absence of the helical field, the polarization vector rotated through an angle of $\pi/2$ when the longitudinal field was reversed; this behavior is in agreement with theory (N.A.Khizhnyak. Fizika plazmy i problemy upravlentyat termoyadernogo sinteza, No. 4, Izd. AK USSR, Kiyev, 1962). Application of the helical field did not decrease the polarization but rotated its direction through an angle corresponding to the rotation of the lines of force; this rotation was $\pi/3$ radians when the longitudinal field strength was 160 kA/m and the current in the helical winding was 3 kA. The density of the plasmas at the exit from the toroidal section was measured with a screened probe. In the absence of the helical field the plasma density was approximately 8 x 1010 cm⁻³ when the longitudinal field strength was 200 kA/m. Application of the helical field (when the longitudinal field was 16 kA/m) increased the plasma density at the exit from the toroidal section by as much as a factor 10. This increase was greater for the slower components of the plasma burst than for the faster components. Orig. art. has: 1 formula and 8 figures.

ASSOCIATION: none

ENCL: 00

SUB CODE: 12

SUBMITTED:

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NR REF 807: 003

OTHER: 000

APPROVED FOR RELEASE: 09/19/2001

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[1	L 3610-66 ETC/EPF(n) -2/ENG(m)/EPA(N) 2 LJP(m) AT UR/0057/65/035/009/1601/1605 5/ ACCESSION NR: AP5024037 44.55 553.9 44.55 553.9 44.55 44.55 AUTHOR: Il yenko, B. P.; Lats'ko, Ye. M.; Zalkind, V. M.; Zykov, V. G.; Tolok, E
	AUTHOR: Il'yenko, B. P.; Lats'ko, Ye. M.; Zarkina, V. Z. V. T. W. S. TITLE: Investigation of the polarization of plasmas moving in magnetic fields of
	opposite curvatures
	TOPIC TAGS: inhomogeneous plasma, electric field, toroldar geometry,
	ABSTRACT: The authors measured the polarization of plasmas moving in a papers (ZMTF magnetic field, using the apparatus described in the two accompanying papers (ZMTF magnetic field, using the apparatus described in the two accompanying papers (ZMTF magnetic field, using the apparatus AP5024035 and AP50240367) and, in addition, a magnetic field, which was apparatus AP5024035 and AP50240367) and, in addition, a magnetic field, using the apparatus described in the two accompanying papers (ZMTF).
	35, 1598, 1801, 1905 Zero drift tube consisting of the hardinal magnetic 7.4 cm diameter S-shaped copper drift tube section. A longitudinal magnetic large radius joined by a 20 cm long straight section. A longitudinal magnetic large radius joined by a 20 cm long straight section. Plasmas could be injected at
	field of 200 kA/m was maintained to the straight section joining the arization of the plasmas was measured with probes located at the center of the torarization of the plasmas was measured with probes located at the center of the torarization of the plasmas was measured with probes located at the center of the torarization of the plasmas was measured with probes located at the center of the torarization of the plasmas was measured with probes located at the center of the torarization of the plasmas was measured with probes located at the center of the torarization of the plasmas was measured with probes located at the center of the torarization of the plasmas was measured with probes located at the center of the torarization of the plasmas was measured with probes located at the center of the torarization of the plasmas was measured with probes located at the center of the torarization of the plasmas was measured with probes located at the center of the torarization of the plasmas was measured with probes located at the center of the torarization of the plasmas was measured with probes located at the center of the probes located
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L 3610-66 ACCESSION NR: AP502L037 two half-tori of the S-shaped drift tube. The polarization is analyzed in terms of three components V_Z , V_R , and V_T : V_Z is parallel to the axis of the torus, V_R is in the direction of the large radius of the torus, and V_{r} is in the plane of V_{z} and VR and is directed away from the axis of the drift tube (along the small radius of the torus). It was found that Vz changes sign when the direction of the magnetic field is reversed but not when the direction of motion of the plasma through the U-shaped drift tube is reversed without reversing the field. When the direction of motion of the plasma through the S-shaped drift tube was reversed, however, the V_z component of the polarization measured in the straight section joining the t_{MO} half-tori changes sign. When two oppositely moving plasmas collided in the center of the U-shaped drift tube the value of Vz was approximately the same as when only one plasma was present. When two oppositely moving plasmas collided in the straight section joining the two half-tori of the S-shaped drift tube, the Vz polarization components of the two plasmas canceled each other and only Vr was measured. The distributions of Vz and Vr across the drift tube are presented graphically. It was found that Vz and Vz are of comparable magnitude in the fast leading edge of the plasma burst, but that Vg predominates in the tail. Orig. artic has: 8 figures. Card 2/3

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	-L-3610-66 ACCESSION NR: AP5024037
	ASSOCIATION: none SUBMITTED: 18Dec6h ENCL: 00 SUB CODE: ME.
	NO REF SOVE 002 OTHER: 002
	more
	Card 3/3

. 3611-66 ENT(1)/ETC/EPE(n)-2/ENG(m)/EPA(w)-2 UR/0057/65/035/009/1598/1601 ACCESSION NR: AP5024036 AUTHOR: Il'yenko, B.P.; Lats'ko, Ye.H.; Zalkind, Investigation of the polarization of a plasma moving in a toroidal magna-TITLE: 21.44.55 tic field SOURCE: Zurnal tekhnicheskoy fiziki, v. 35, no. 9, 1965, 1598-1601 TOPIC TAGS: inhomogeneous plasma, electric field, toroidal geometry, longitudinal magnetic field ABSTRACT: The authors measured the polarization of plasmas moving in a toroidal magnetic field. The magnetic field (up to 200 kA/m) was produced in a U-shaped copper drift tube (diameter not given). The large radius of the toroidal section of the drift tube was 42 cm and the straight legs were 60 cm long. Plasmas with ion densities exceeding 1013 cm-3 were injected at one end of the drift tube with a conical plasma gun powered by the 8-12 kV 6.5 µ sec discharge of a 3 µfd capacitor. The charged particle density of the injected plasmas was not less than 1013 cm -1 The electric field polarization in the plasma was measured with probes at the exit from the toroidal section. The polarization field had components in the direction Card 1/2

出作10克特代美国电池以15克斯克特。15克特的技术,15克特的经济均分和16克 (15克特的代码设置多数的设备 15可能设置在高度的15克姆的15克姆的15克姆

EWT(1)/ETC(F)/EPF(n)-2/EWG(m) IJP(c) AT L 12862-66 ACC NR. AT5022298 SOURCE CODE: UR/3137/64/050/048/0001/00|15 AUTHOR: Il'yenko, B. P.; Lats'ko, Ye. H.; Zalkind, V. H.; Zykov, Tolok. V. T. ORG: Physicotechnical Institute, Academy of Sciences UkrSSR (Fizikatekhnicheskiy institut Akademiya nauk UkrSSR) TITLE: Investigation of a plasmoid moving in a toroidal magnetic field SOURCE: AH UkrSSR. Fiziko-tekhnicheskiy institut. Doklady, no. 048/P--007, 1964. Issledovaniye plazmennogo sgustka, dvizhushchegosya v toroidal'nom magnitom pole, 1-15 TOPIC TAGS: plasmoid, plasma magnetic field, plasma density, plasma injection ABSTRACT: The present paper is a continuation of an investigation of electrical fields in plasmoids moving in curved magnetic fields. Fig. 1 shows the general view of the experimental apparatus used in the investigation. The maximum magnetic field was 200 ka/m, length of vacuum tube was 252 cm, effective radius of spiral windings was 5.4 cm. The plasma was injected from conical plasma sources. Battery capacity was Card 1/2

IL'YENKO, B.P.; LATS'KO, Ye.M.; ZALKIND, V.M.; ZYKOV, V.G.; TOLOK, V.T.

Polarization of a plasma moving in a helical magnetic field. Zhur. tekh. fiz. 35 no.9:1594-1597 S *65.

Polarization of a plasma moving in a toroidal magnetic field. Ibid.:1598-1601

Polarization of a plasmoid moving in magnetic fields with different signs of the curvature of the lines of force. Ibid.:1602-1605 (MIRA 18:10)

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- ZAL'KIND, Ya., KHARKHAROVA, G.M.
- 2. USSR (600)
- Sulfanilic Acid
- Interaction of 2,5-diphenylhexyne-3-diol-2,5 (symm.dimethyldiphenylbutymediol) with phenol in the presence of sulfamilic acid. Zhur. ob. khim. 22 no.10, 1952

_1953. Unclassified. Monthly List of Russian Accessions, Library of Congress, February

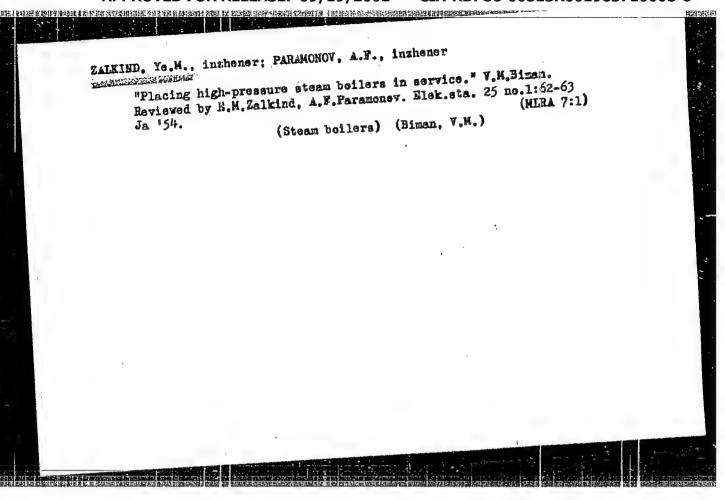
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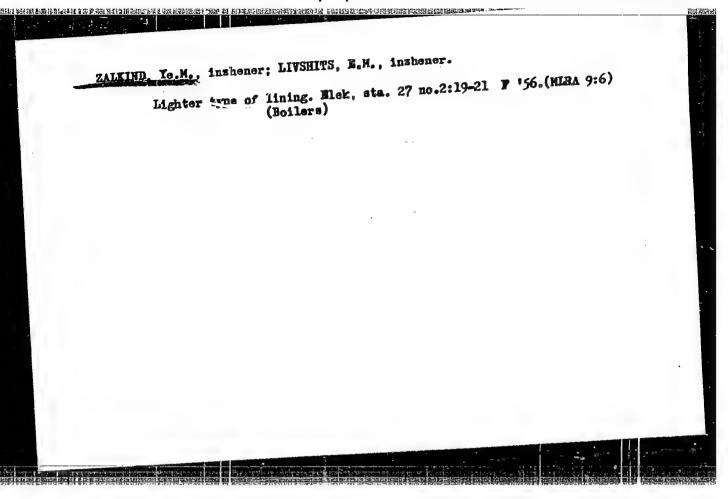
GUDREVICH, L. A. DATTRIYEV, A. A.

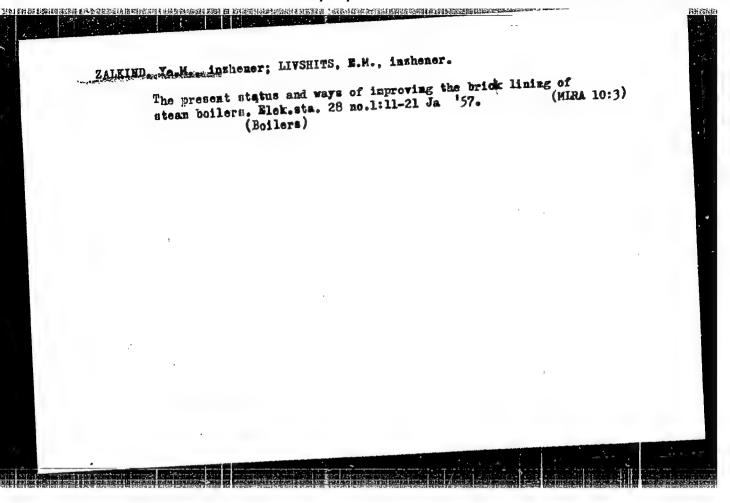
Furnaces, Electric Welding

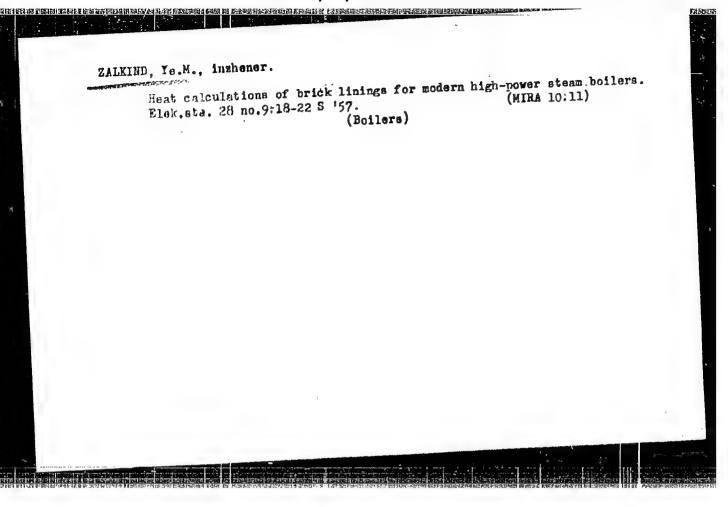
Designing, constructing and operating peg slag screens. Elek. sta. 23 No. 3, 1952 Inzh.

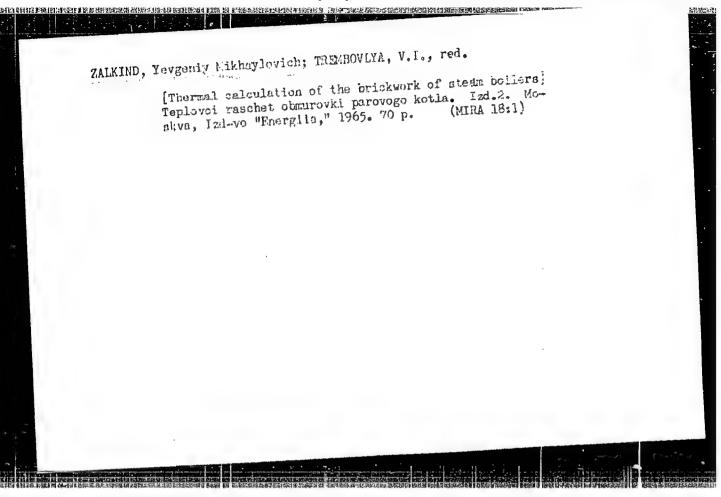
SO: Monthly List of Russian Accessions, Library of Congress, July 1952 1957, Uncl.

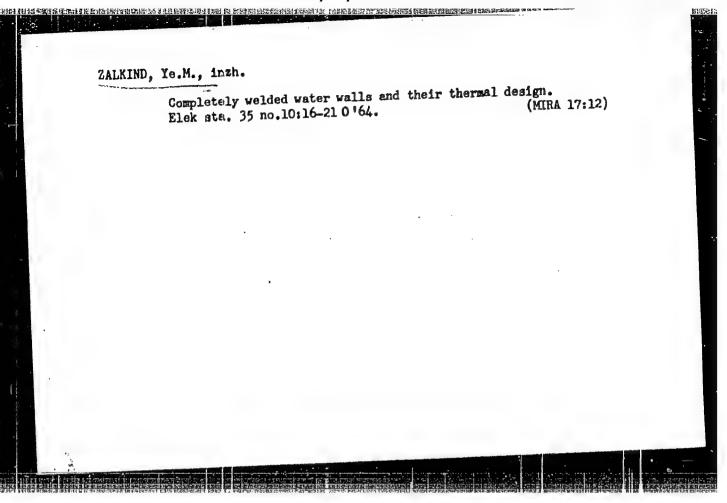








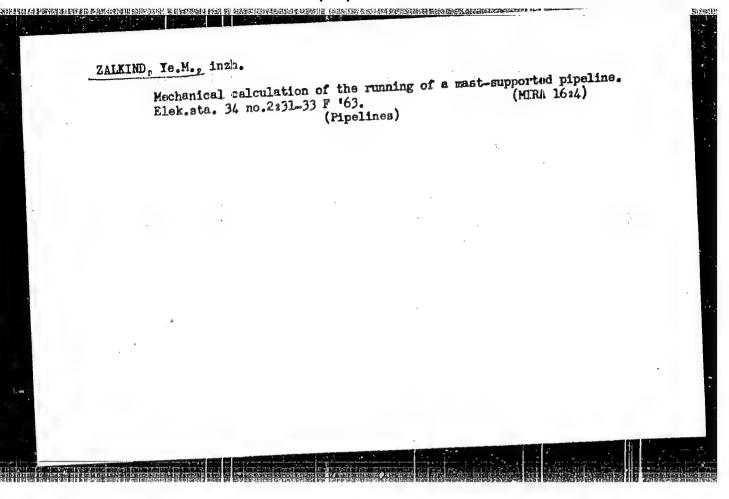


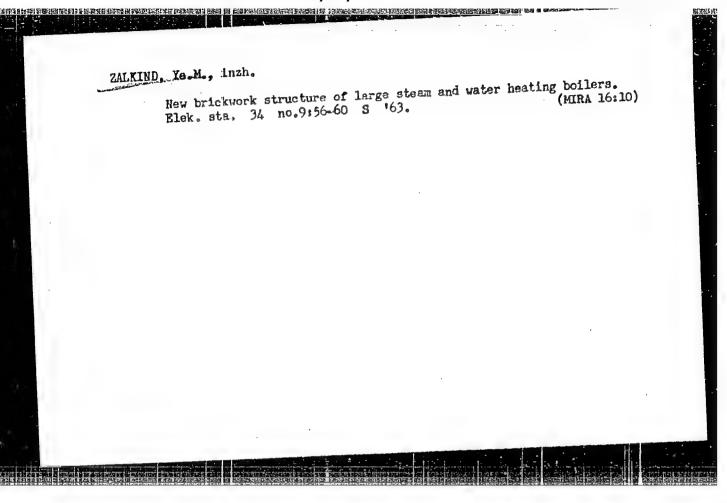


GOUKHMAN, A.A., inzh.; ZALKIND. Ye.M., inzh.

Brickwork and linings of large modern Russian boilers. Energ. (MIRA 16:5)

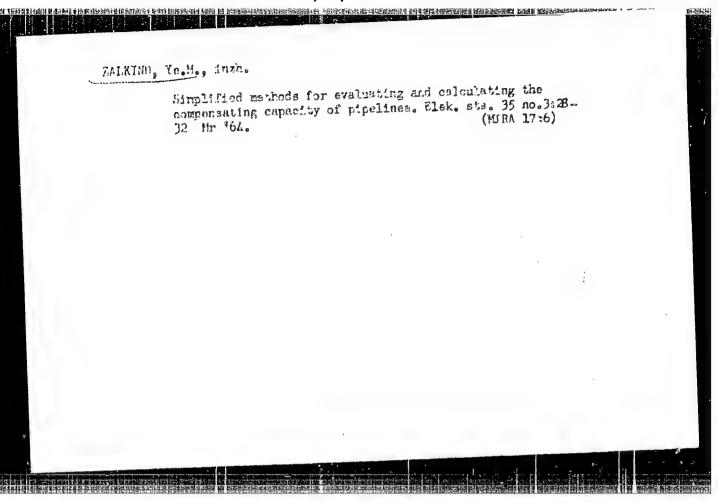
1. Moskovskiy filial Vsesoyuznogo instituta po proyektirovaniyu organizatsiy energeticheskogo stroitel'stva.

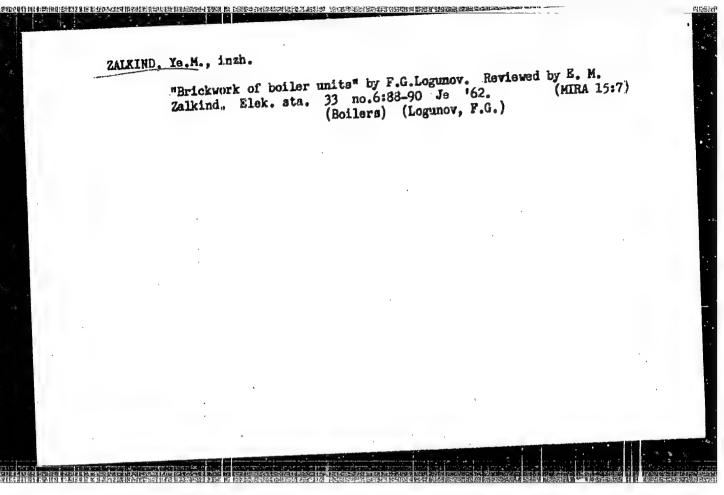




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(Boilers)





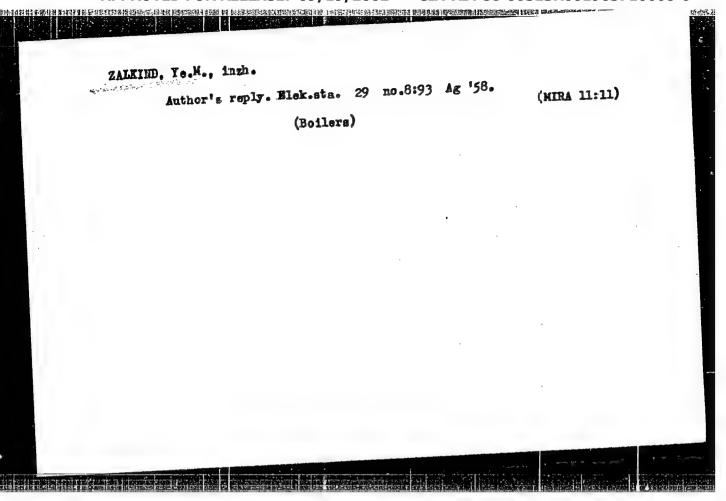
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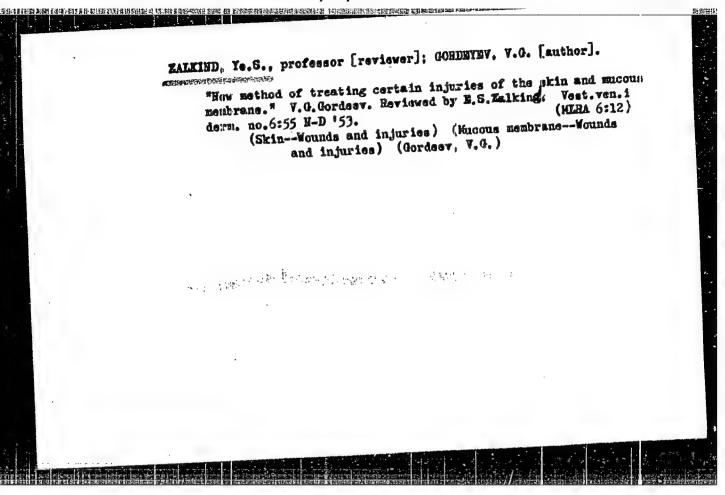
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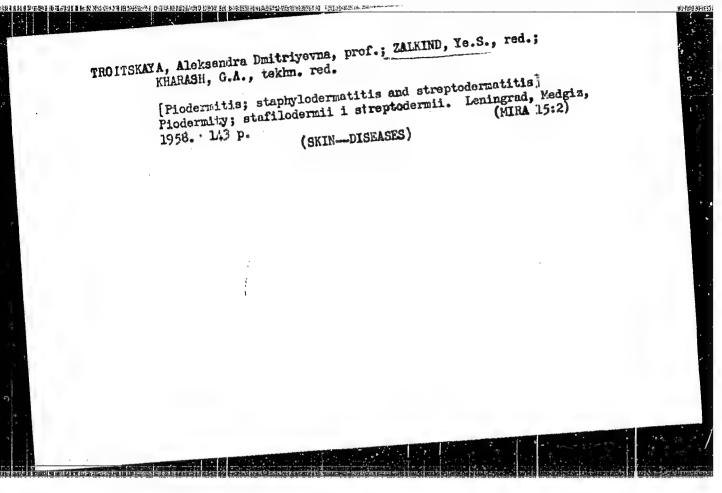
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